

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1-74. Cancelled

75. (New) A spermicidal composition comprising a gel-microemulsion comprising an oil-in-water microemulsion and a polymeric hydrogel, wherein the oil-in-water microemulsion comprises a lipid; one or more pharmaceutically acceptable surfactants, wherein the surfactant comprises one or more phospholipids and one or more non-ionic surfactants, and wherein the surfactant comprises a block copolymer of ethylene oxide and propylene oxide; one or more pharmaceutically acceptable humectants; and water.

76. (New) A spermicidal composition comprising a gel-microemulsion comprising an oil-in-water microemulsion and a polymeric hydrogel, wherein the oil-in-water microemulsion comprises: a lipid comprising a fatty acid glyceride ester; one or more pharmaceutically acceptable surfactants; one or more pharmaceutically acceptable humectants; and water.

77. (New) The composition of claim 76, wherein the fatty acid glyceride ester comprises a monoglyceride or a triglyceride.

78. (New) The composition of claim 77, wherein the fatty acid glyceride ester comprises a medium chain C₆-C₁₂ fatty acid glyceride ester.

79. (New) The composition of claim 78, wherein the medium chain C₆-C₁₂ fatty acid glyceride ester is a triglyceride of caprylic/capric acid.

80. (New) A spermicidal composition comprising a gel-microemulsion comprising:
an oil-in-water microemulsion, wherein the oil-in-water microemulsion comprises
a lipid;
one or more pharmaceutically acceptable surfactants;
one or more pharmaceutically acceptable humectants; and
water;
and a polymeric hydrogel selected from the group consisting of
natural gel-forming polymers selected from the group consisting of carrageenan, xanthan
gum, gum karaya, gum acaicia, locust bean gum, and guar gum; and
synthetic gel-forming polymers.

81. (New) The composition of claim 80, wherein the natural gel-forming polymers are selected from the group consisting of carrageenan and xanthan gum.

82. (New) A spermicidal composition comprising a gel-microemulsion comprising
an oil-in-water microemulsion and a polymeric hydrogel, wherein the oil-in-water
microemulsion comprises:
a lipid;
one or more pharmaceutically acceptable surfactants;
one or more pharmaceutically acceptable humectants;
water; and
one or more preservatives selected from the group consisting of sodium benzoate, methyl
parabens, propyl parabens, thimerisal, and sorbic acid.

83. (New) The composition of claim 82, wherein the preservative is sodium benzoate.

84. (New) A spermicidal composition comprising a gel-microemulsion comprising an oil-in-water microemulsion and a polymeric hydrogel, wherein the oil-in-water microemulsion comprises:

a lipid;

one or more pharmaceutically acceptable surfactants;

one or more pharmaceutically acceptable humectants;

and water,

wherein the composition has a viscosity in the range of about 200 to about 1000 centipoise.

85. (New) A spermicidal composition comprising a gel-microemulsion comprising an oil-in-water microemulsion and a polymeric hydrogel, wherein the oil-in-water microemulsion comprises:

a lipid;

one or more pharmaceutically acceptable surfactants;

one or more pharmaceutically acceptable humectants;

and water,

wherein the composition has a submicron particle size in the range of about 30 to about 80 nm.

86. (New) A spermicidal composition comprising a gel-microemulsion comprising an oil-in-water microemulsion and about 0.5% to about 4% by weight of polymeric hydrogel, wherein the oil-in-water microemulsion comprises:

about 2% to about 25% by weight lipid;

about 3% to about 30% by weight surfactant of one or more pharmaceutically acceptable surfactants;

about 2% to about 24% of one or more pharmaceutically acceptable humectants;
and water;

about 0% to about 0.5% preservative.

87. (New) The composition of claim 86, wherein the composition comprises:

in the range of about 6% to about 23% by weight lipid;
in the range of about 4% to about 17% by weight surfactant;
in the range of about 3% to about 12% humectant;
in the range of about 1% to about 2% polymer gel; and
in the range of about 0% to about 0.3% preservative.

88. (New) The composition of claim 87, wherein the composition comprises:
in the range of about 8% to about 15% by weight lipid;
in the range of about 8% to about 15% by weight surfactant;
in the range of about 5% to about 10% humectant;
in the range of about 1.2% to about 1.8% polymer gel; and
in the range of about 0% to about 0.2% preservative.

89. (New) A spermicidal composition comprising a gel-microemulsion comprising an oil-in-water microemulsion and about 0.5% to about 2% by weight of polymeric hydrogel, wherein the oil-in-water microemulsion comprises:
about 2% to about 20% by weight lipid;
about 4% to about 17% by weight of one or more pharmaceutically acceptable surfactants;
about 5% to about 22% of one or more pharmaceutically acceptable humectants;
and water; and
about 0.1% to about 0.3% preservative.

90. (New) The composition of claim 89, wherein the composition comprises:
in the range of about 3% to about 10% by weight lipid;
in the range of about 4% to about 10% by weight surfactant;
in the range of about 12% to about 19% humectant;
in the range of about 0.8% to about 1.2% polymer gel; and
in the range of about 0.15% to about 0.2% preservative.

91. (New) A spermicidal composition comprising a gel-microemulsion comprising an oil-in-water microemulsion and about 1% to about 2% by weight of natural polymer gel, wherein the oil-in-water microemulsion comprises:

about 6% to about 23% medium chain C₆-C₁₂ triglyceride;
about 3% to about 10% ethoxylated castor oil;
about 1.5 % to about 6% phospholipid;
about 1.5% to about 6% propylene glycol;
about 1.5% to about 6% polyethylene glycol; and
water; and about 0% to about 0.2% preservative

92. (New) The composition of claim 91, wherein the composition comprises:

in the range of about 8% to about 15% medium chain C₆-C₁₂ triglyceride;
in the range of about 5% to about 9% ethoxylated castor oil;
in the range of about 3 % to about 6% phospholipid;
in the range of about 3% to about 6% propylene glycol;
in the range of about 3% to about 6% polyethylene glycol;
in the range of about 1.2% to about 1.8% natural polymer gel; and
in the range of about 0.1% to about 0.2% preservative.

93. (New) The composition of claim 91, wherein the composition comprises:

in the range of about 2% to about 20% medium chain C₆-C₁₂ triglyceride;
in the range of about 1% to about 10% ethoxylated castor oil;
in the range of about 0.2% to about 1% block copolymer of ethylene oxide and propylene oxide;
in the range of about 1 % to about 10% phospholipid;
in the range of about 2% to about 22% propylene glycol;
in the range of about 0.6% to about 2% natural polymer gel; and
in the range of about 0% to about 0.3% preservative.

94. (New) The composition of claim 91, wherein the composition comprises:

in the range of about 3% to about 10% medium chain C₆-C₁₂ triglyceride;

in the range of about 2% to about 5% ethoxylated castor oil;
in the range of about 0.2% to about 0.8% block copolymer of ethylene oxide and propylene oxide;
in the range of about 1 % to about 5% phospholipid;
in the range of about 12% to about 19% propylene glycol;
in the range of about 0.8% to about 1.2% natural polymer gel; and
in the range of about 0% to about 0.2% preservative.

95. (New) The composition of claim 91 further comprising one or more therapeutic agents.

96. (New) The composition of claim 95 wherein the therapeutic agent comprises up to 10% by weight of the composition.